

**BEST AVAILABLE COPY****ABSTRACT**

A drug for inhibiting the production of matrix metalloproteinase-9 which contains leptomycin B or its derivative as the active ingredient can specifically inhibit the production of MMP-9 compared with MMP-2, furthermore, has an effect of inhibiting the production of MMP-9 even under stimulating the differentiation by adding calcium at a high concentration or adding TGF- $\beta$ , and under stimulating for inducing inflammation by adding TNF- $\alpha$  or adding IL-1 $\alpha$ .